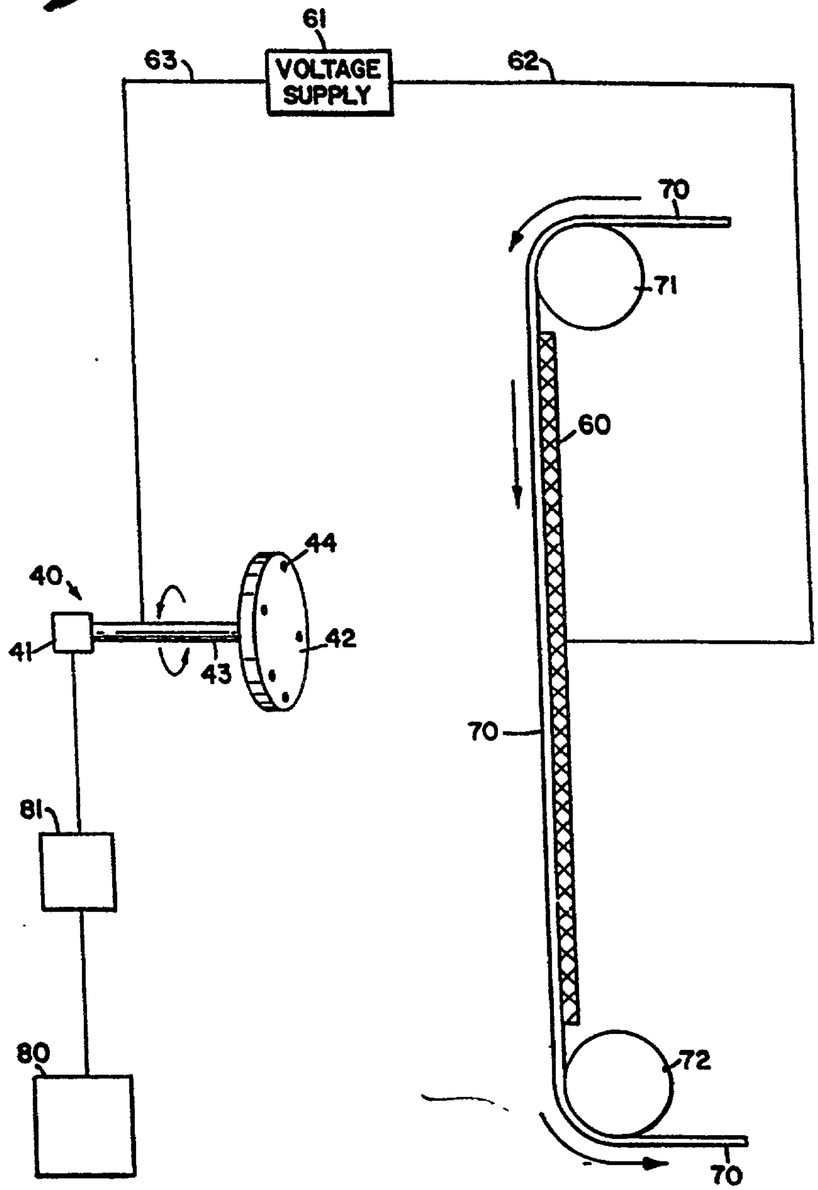
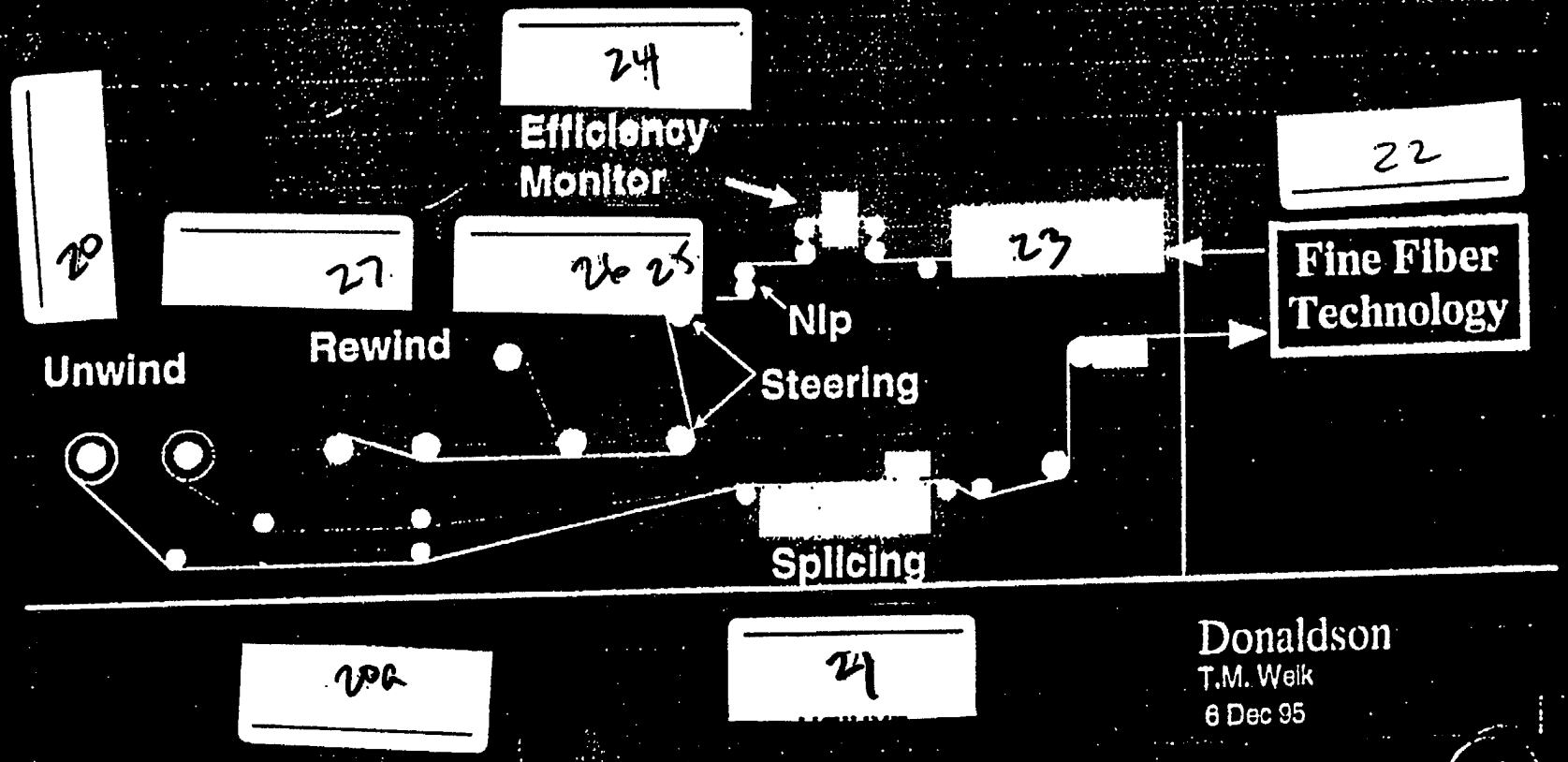
FIG. 1



Fine Fiber Technology

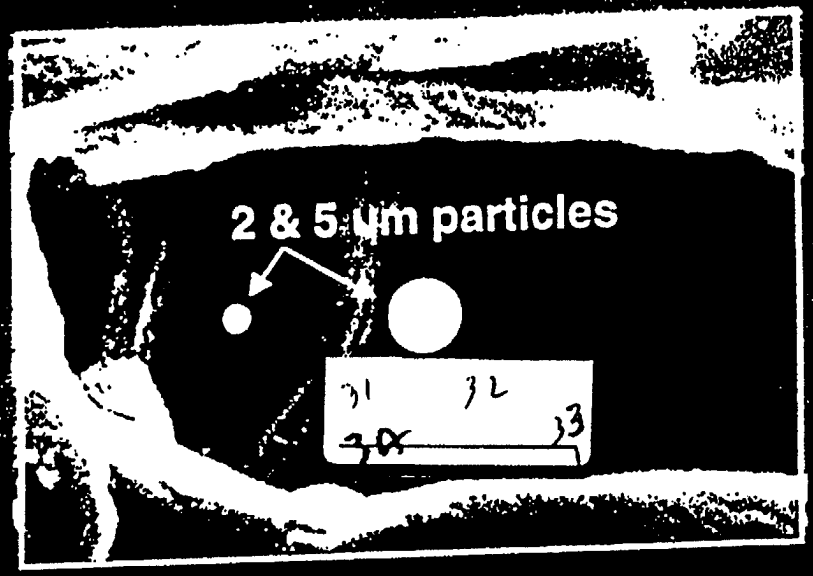


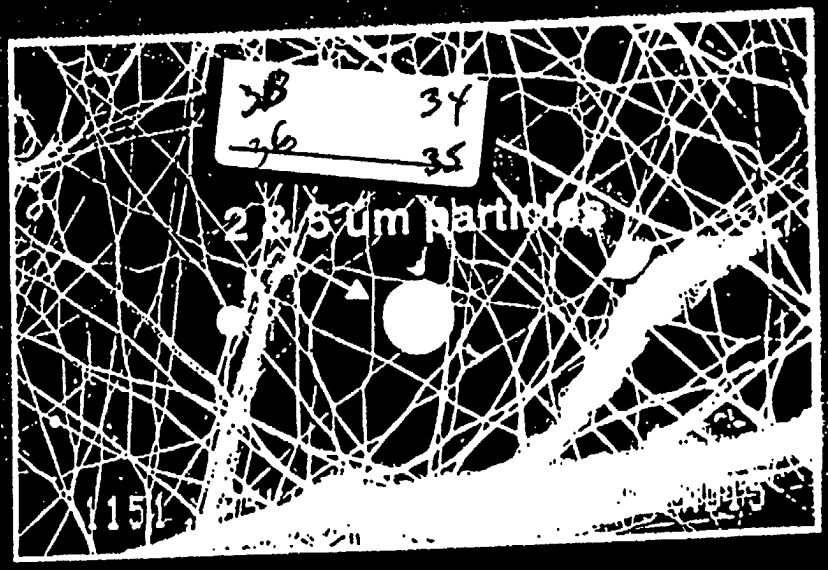
Donaldson
T.M. Welk
6 Dec 95

EXL 2

Cellulose Media

Ultra-Web®





2,000 X Scanning Electron Microscope Images

[redacted]

Katz Analytical Services, Inc.
1191-20C-3, Sample #: 1, Angle: 65

XPS Multiplex
O 1s
EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

6A

Fig 4. ESCA O 1s Spectra for Samp[redacted] As Spun

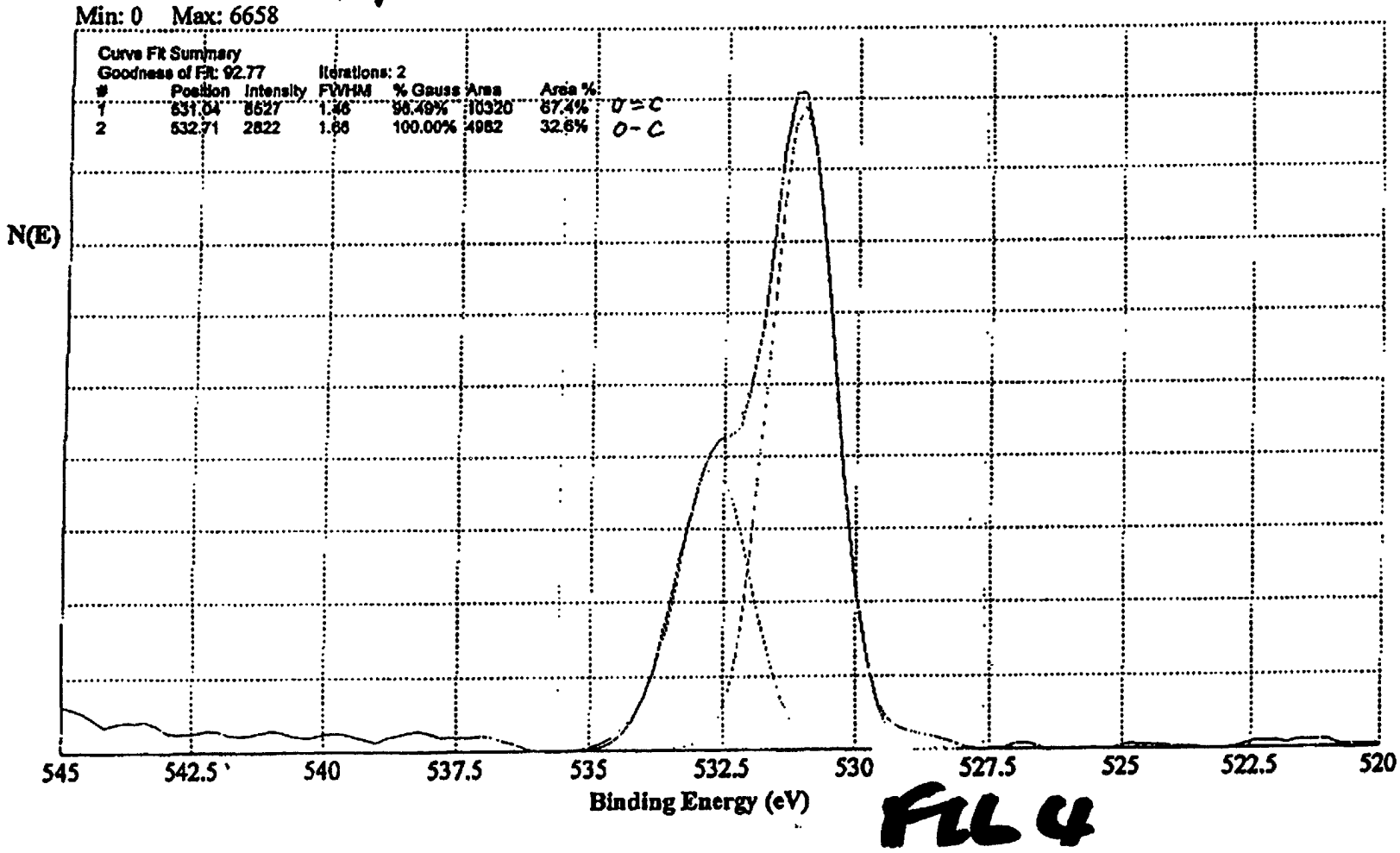


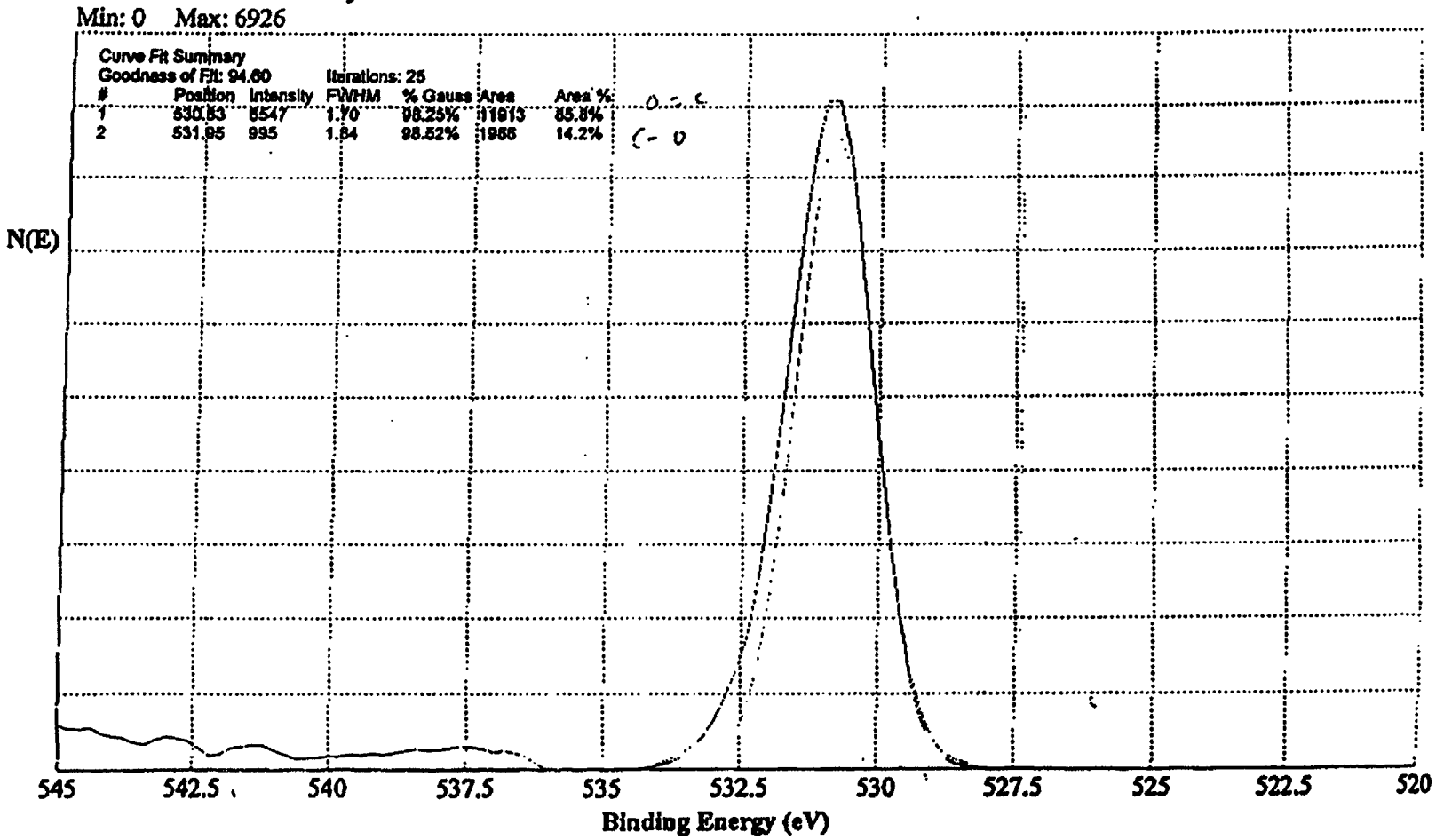
FIG 4

Katz Analytical Services, Inc.
1191-20C-4, Sample #: 1, Angle: 65

[redacted]

XPS Multiplex
O 1s
EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 3. ESCA O1s Spectra for Heat-Treated Sample [redacted] 6A

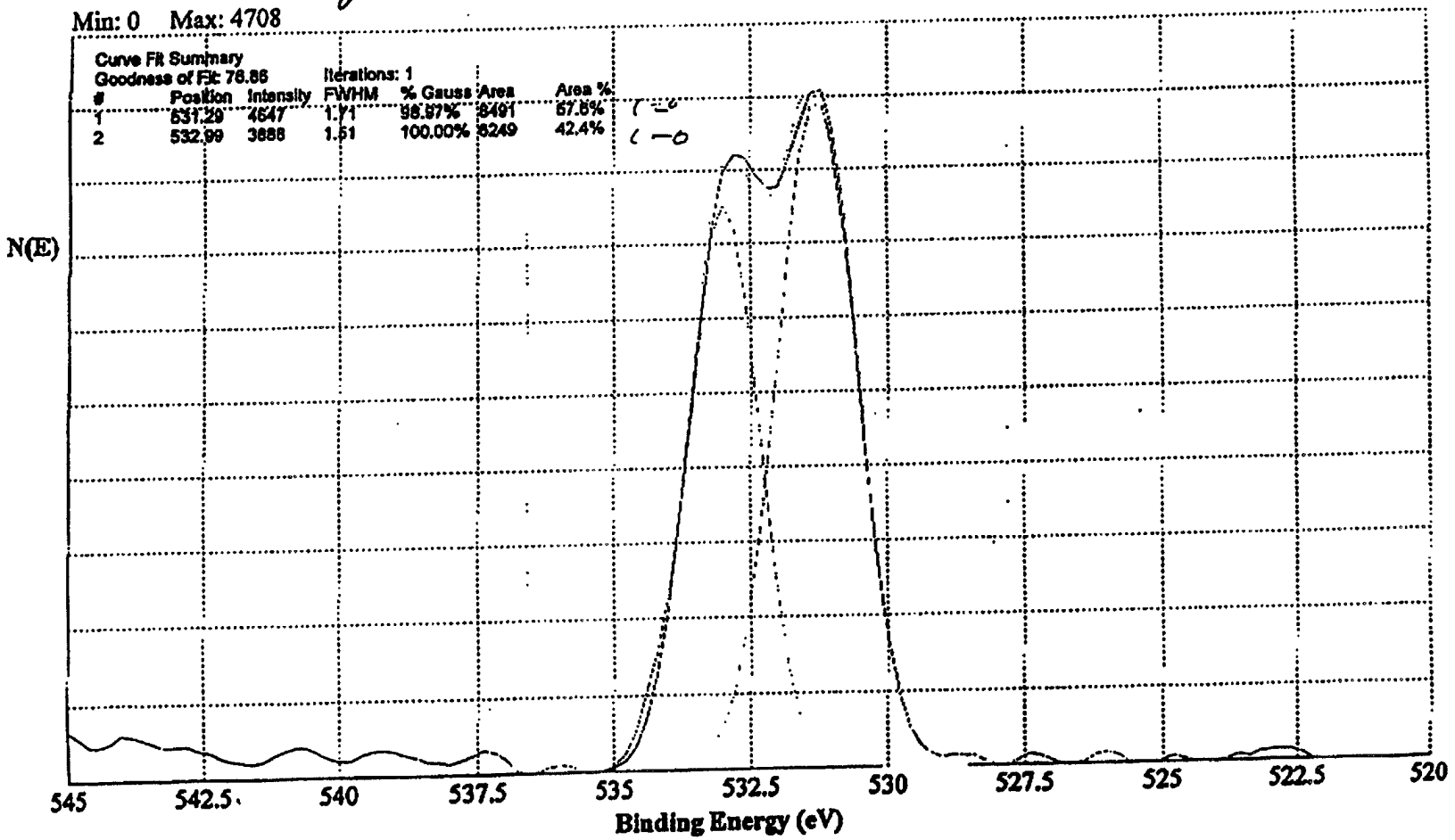


[redacted]

Katz Analytical Services, Inc.
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex
O 1s
EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 6B, ESCA O1s Spectra for As-Span Example [redacted]

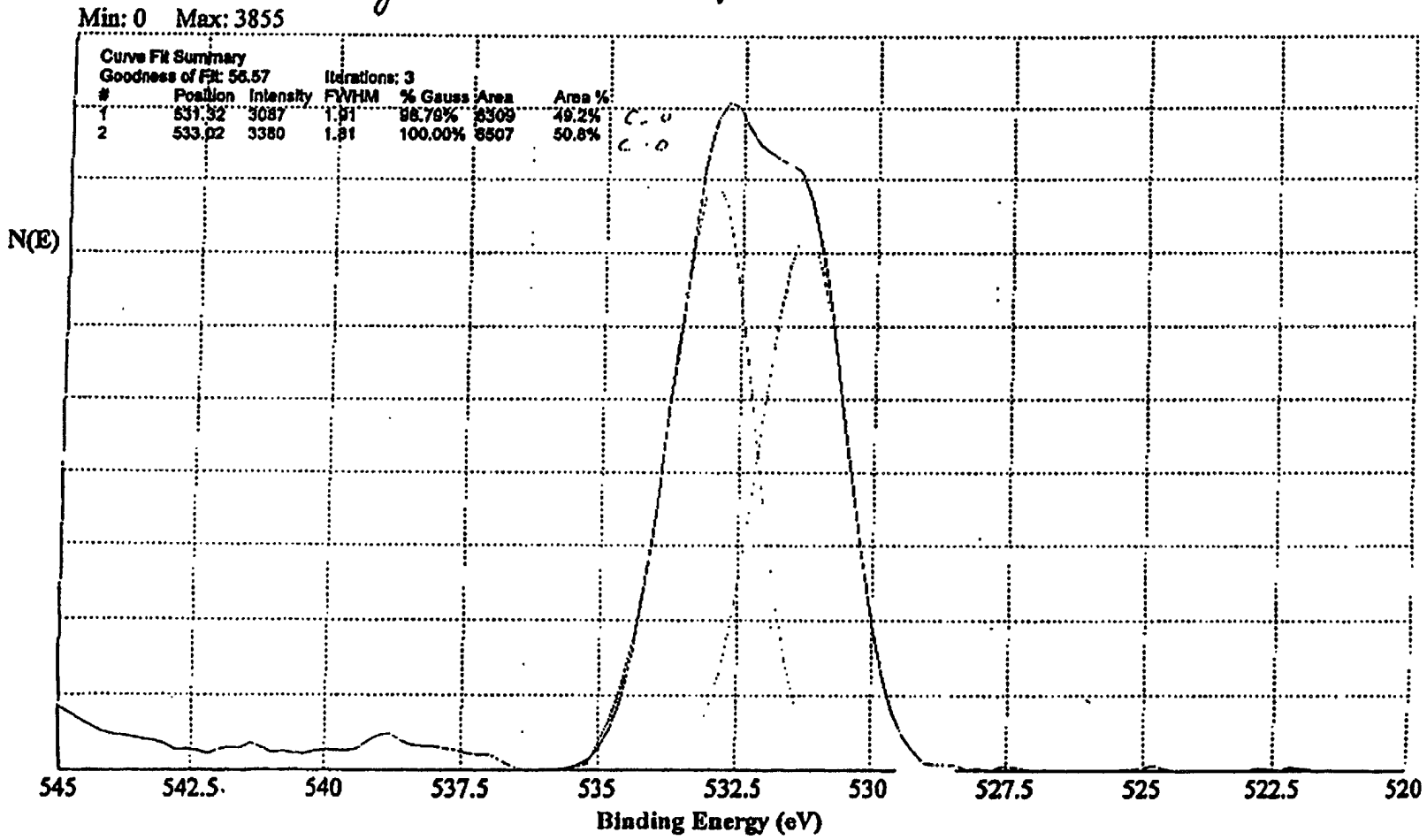


Katz Analytical Services, Inc.
1191-20C-6, Sample #: 1, Angle: 65

[redacted]N

XPS Multiplex
O 1s
EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 16
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 6B ESCA O1s Spectra for Heat-Treated Example [redacted]

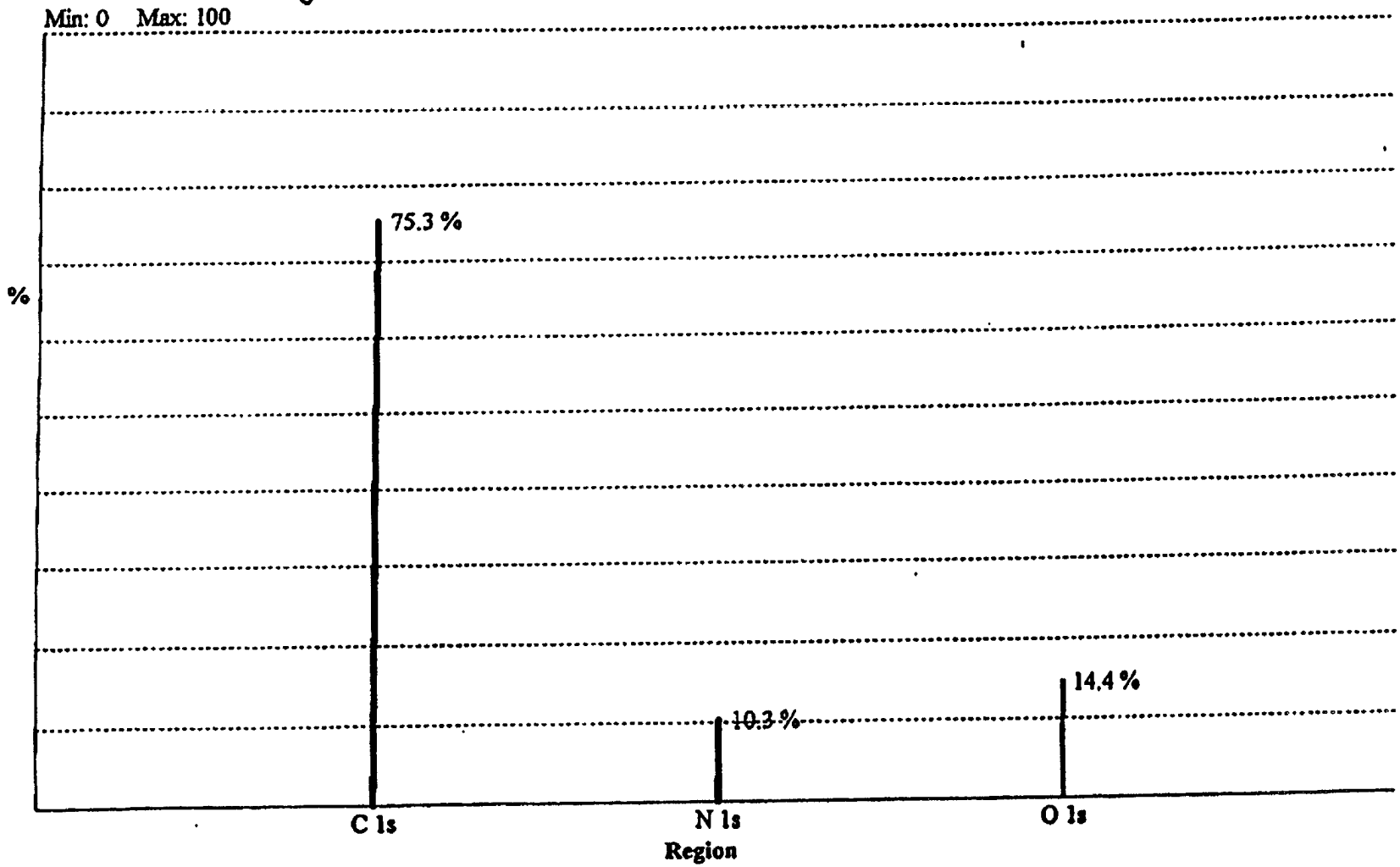


Katz Analytical Services, Inc.
1191-20C-3, Sample #: 1, Angle: 65

[redacted]

XPS Multiplex
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 8. ESCA Multiplex for As-Spun Sample [redacted]6A

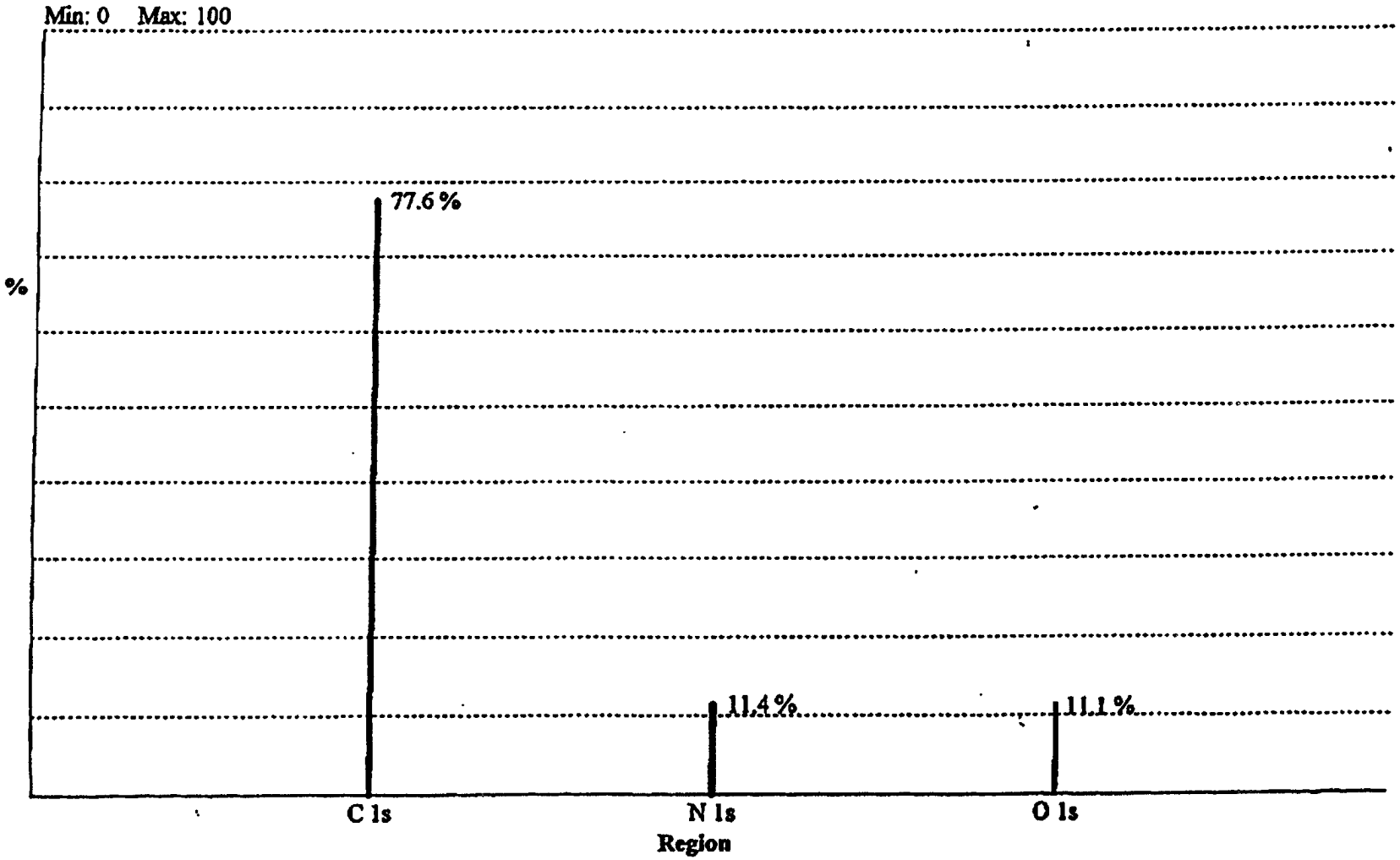


Katz Analytical Services, Inc.
1191-20C-4, Sample #: 1, Angle: 65

[redacted]

XPS Multiplex
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 9. ESCA Multiplex for Heat Treated Sample [redacted] 6A

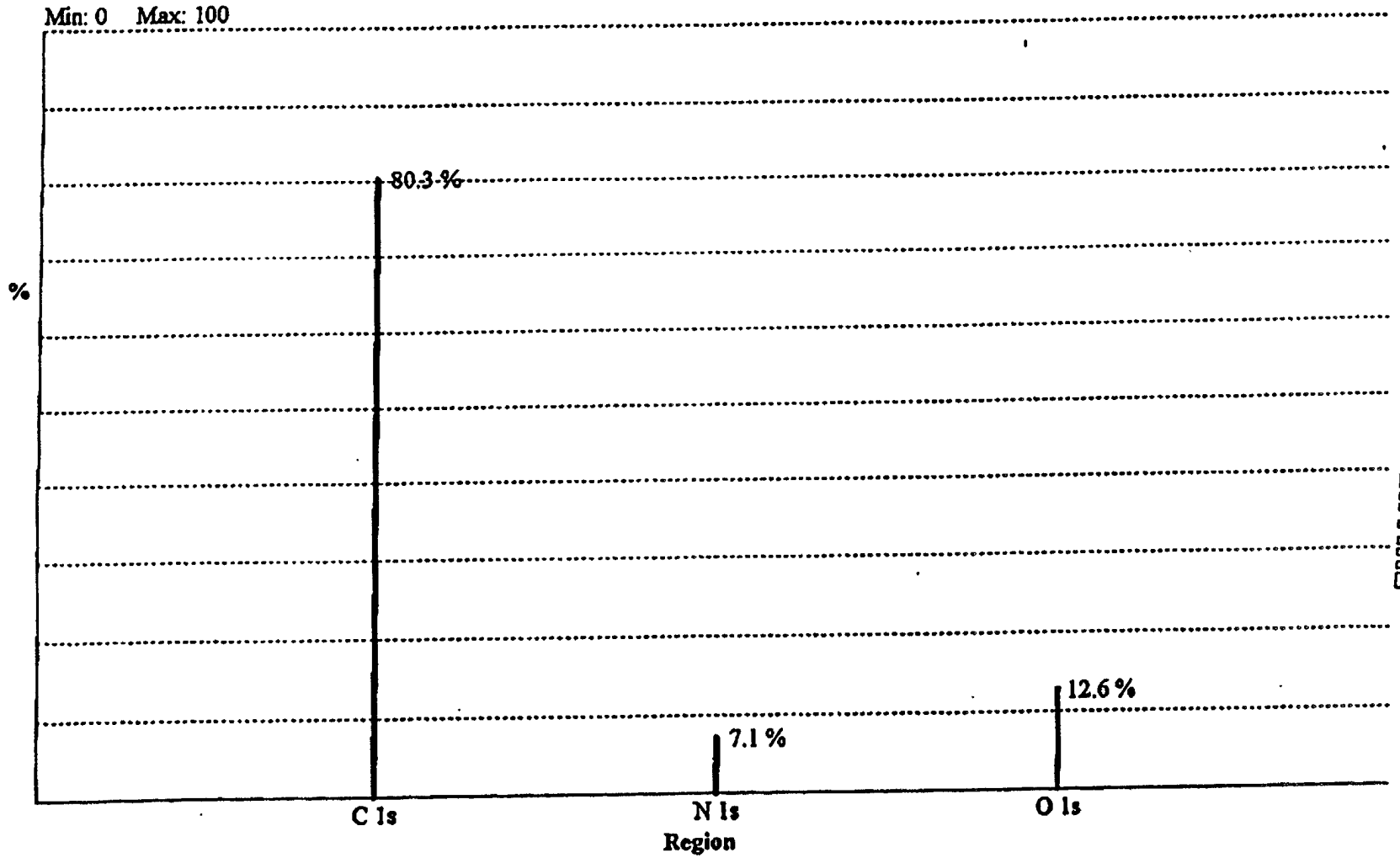


[redacted]

Katz Analytical Services, Inc.
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 10 ESCA Multiplex for As-Spun Sample [redacted]6B

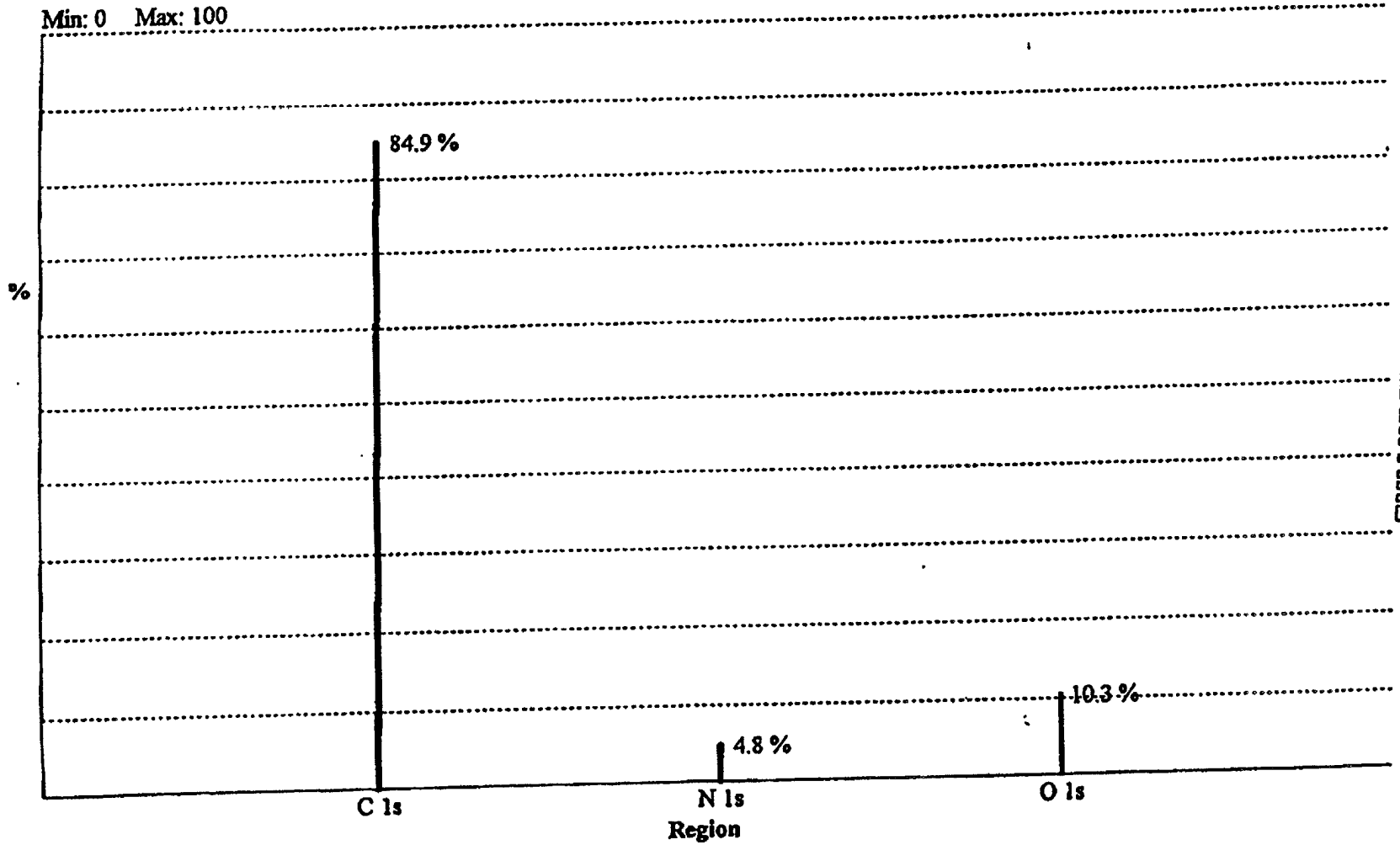


Katz Analytical Services, Inc.
1191-20C-6, Sample #: 1, Angle: 65

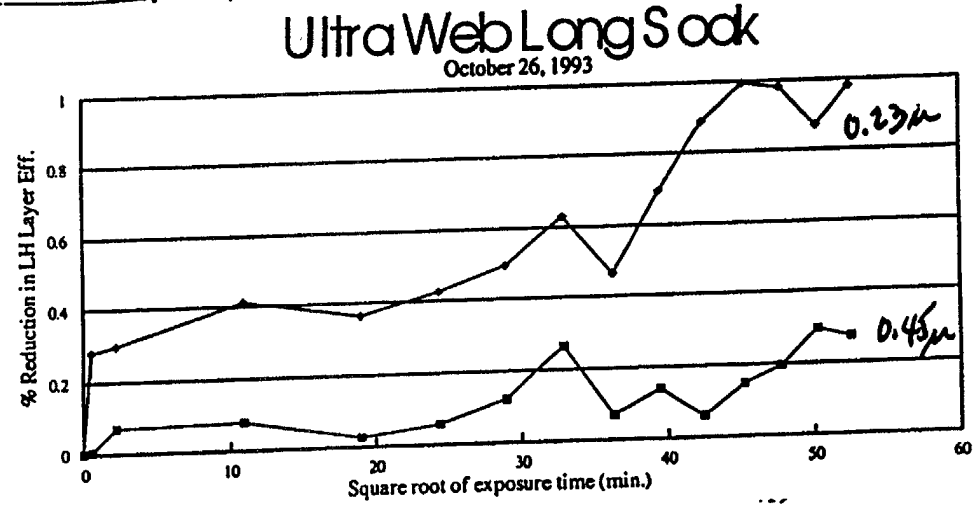
[redacted]

XPS Multiplex
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 6A ESCA Multiplex for Heat-Treated Sample [redacted] 6B



due to the breakage of small



Hot
wash
sock
in
Test
solutions

FIG 12

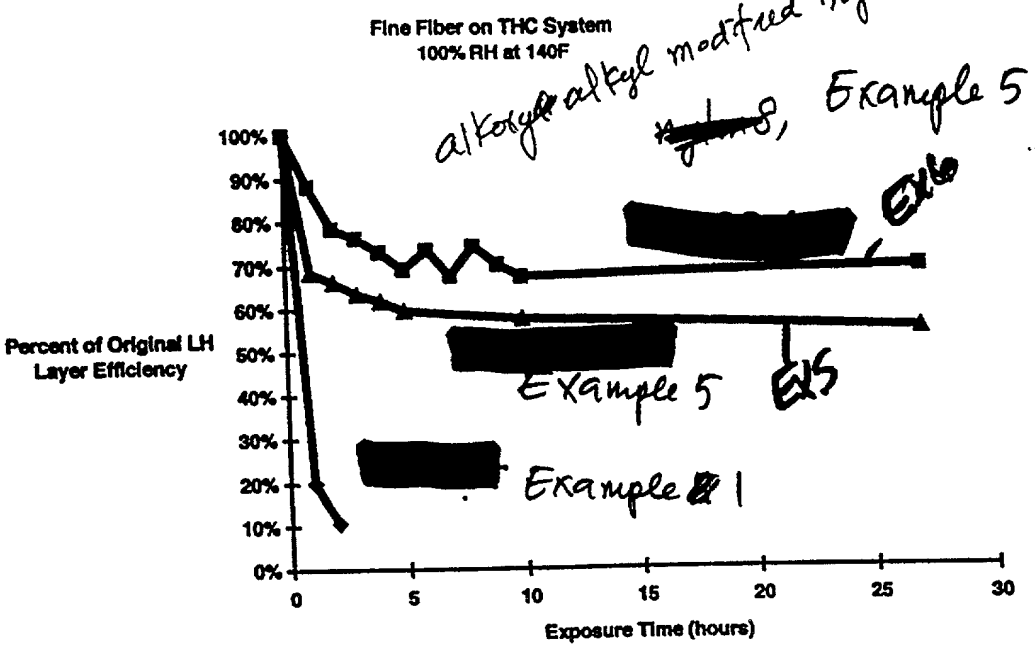
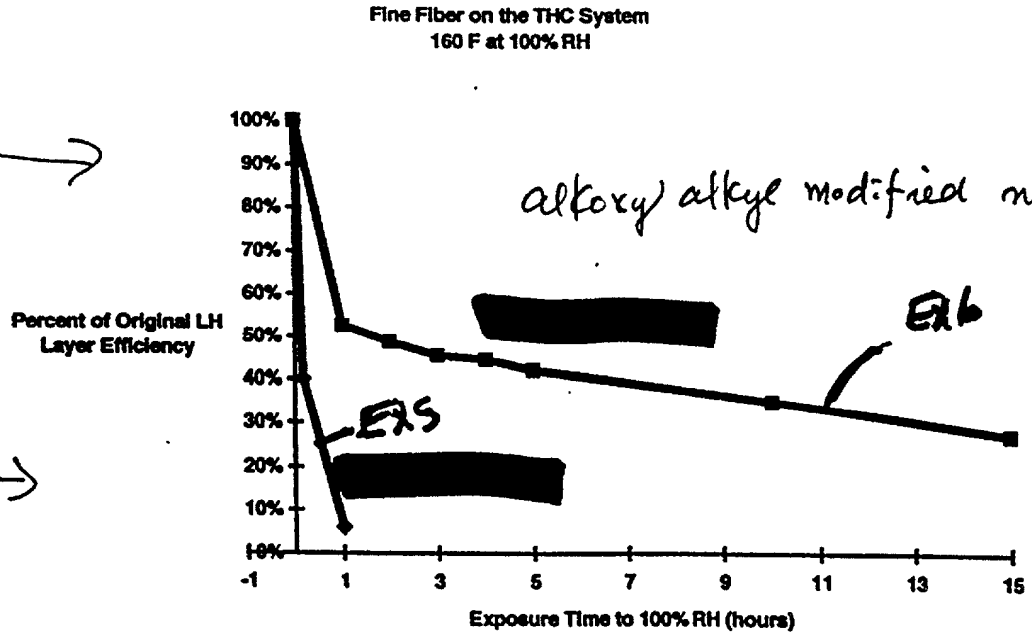


Fig. 13

Fig 14



Fine Fiber on THC System
250F, ~ 0% RH

FIG 15

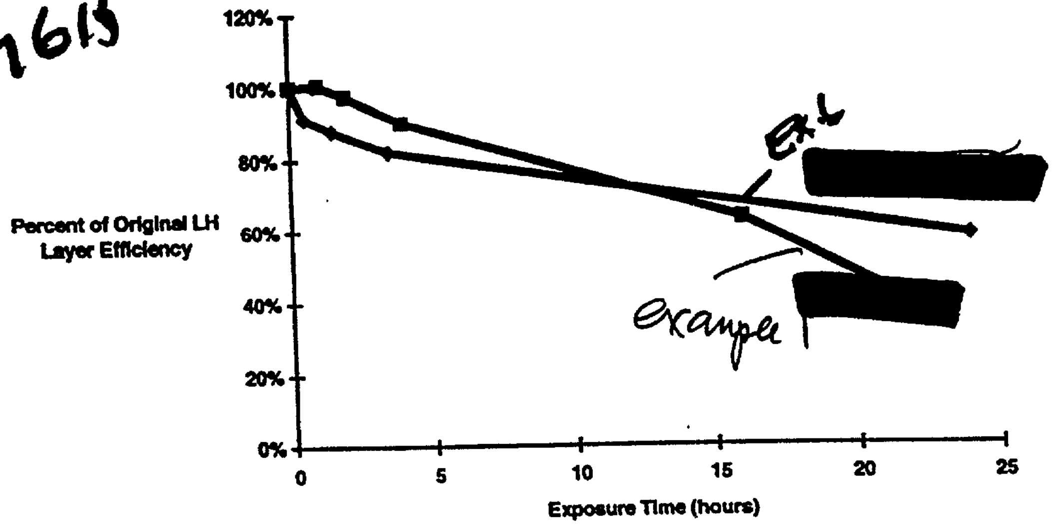
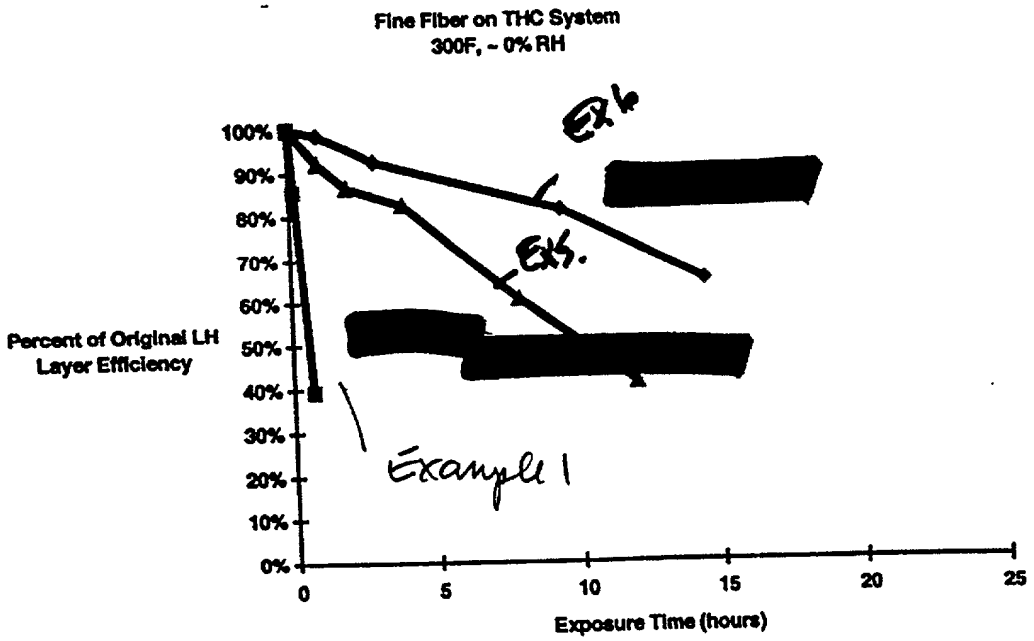


Fig 16



TOTES0"69TT2860

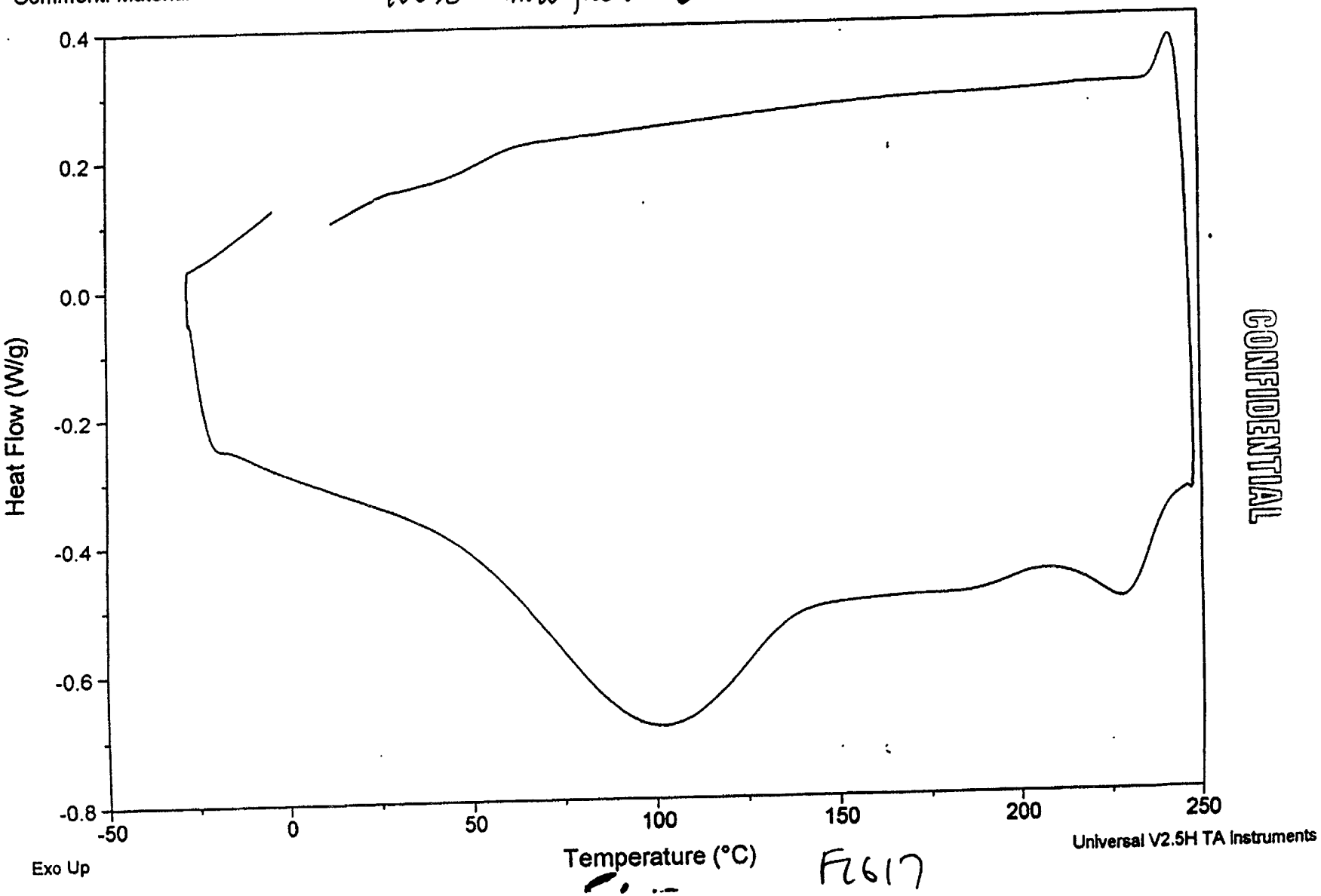
1st Melt

DSC nylon

[redacted]

Sample: 1191-19C-6
Size: 9.1500 mg
Method: Polymer Samples
Comment: Material characterization

100% modified [redacted]66



CONFIDENTIAL

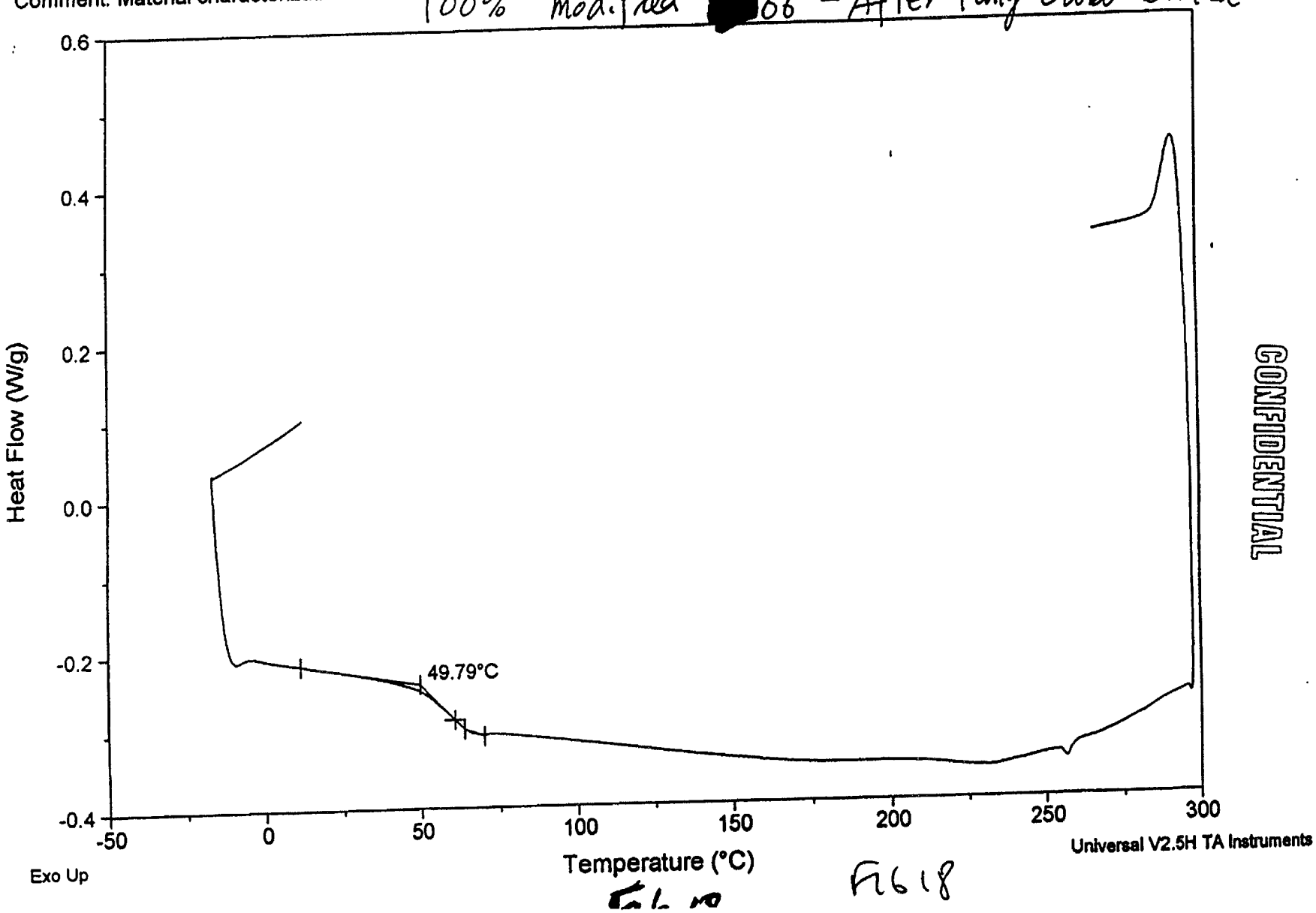
F2617

Sample: 1191-19C-6
Size: 9.1500 mg
Method: Polymer Samples
Comment: Material characterization

2nd Melt DSC

[redacted] nylon

100% modified [redacted]66 - After Fully Cross-linked



CONFIDENTIAL

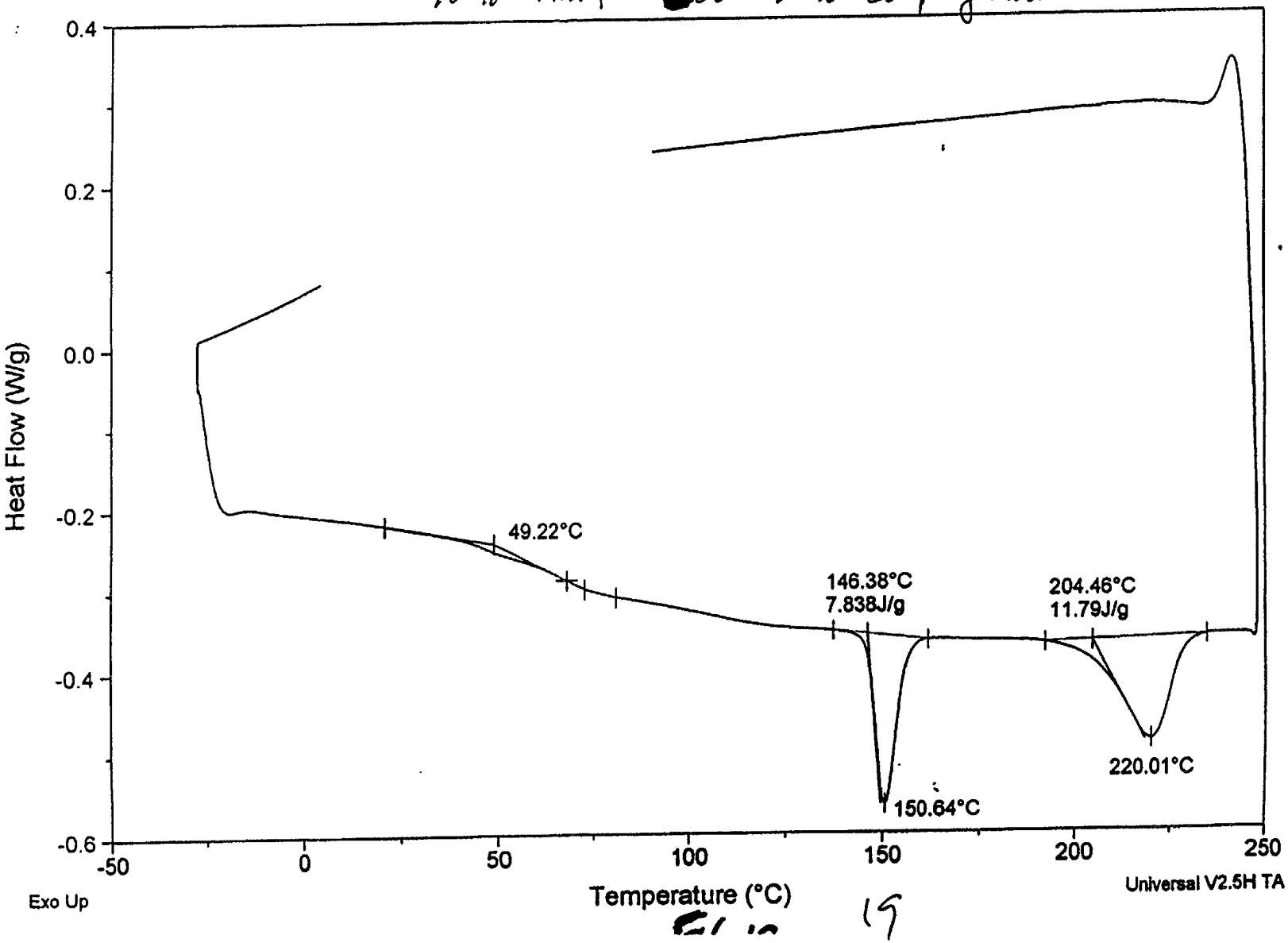
FL618

Sample: 1191-19C-7
Size: 9.8400 mg
Method: Polymer Samples
Comment: Material characterization

1st Melt
DSC

Example 6
70% modified nylon 66: 30% co-polyamide

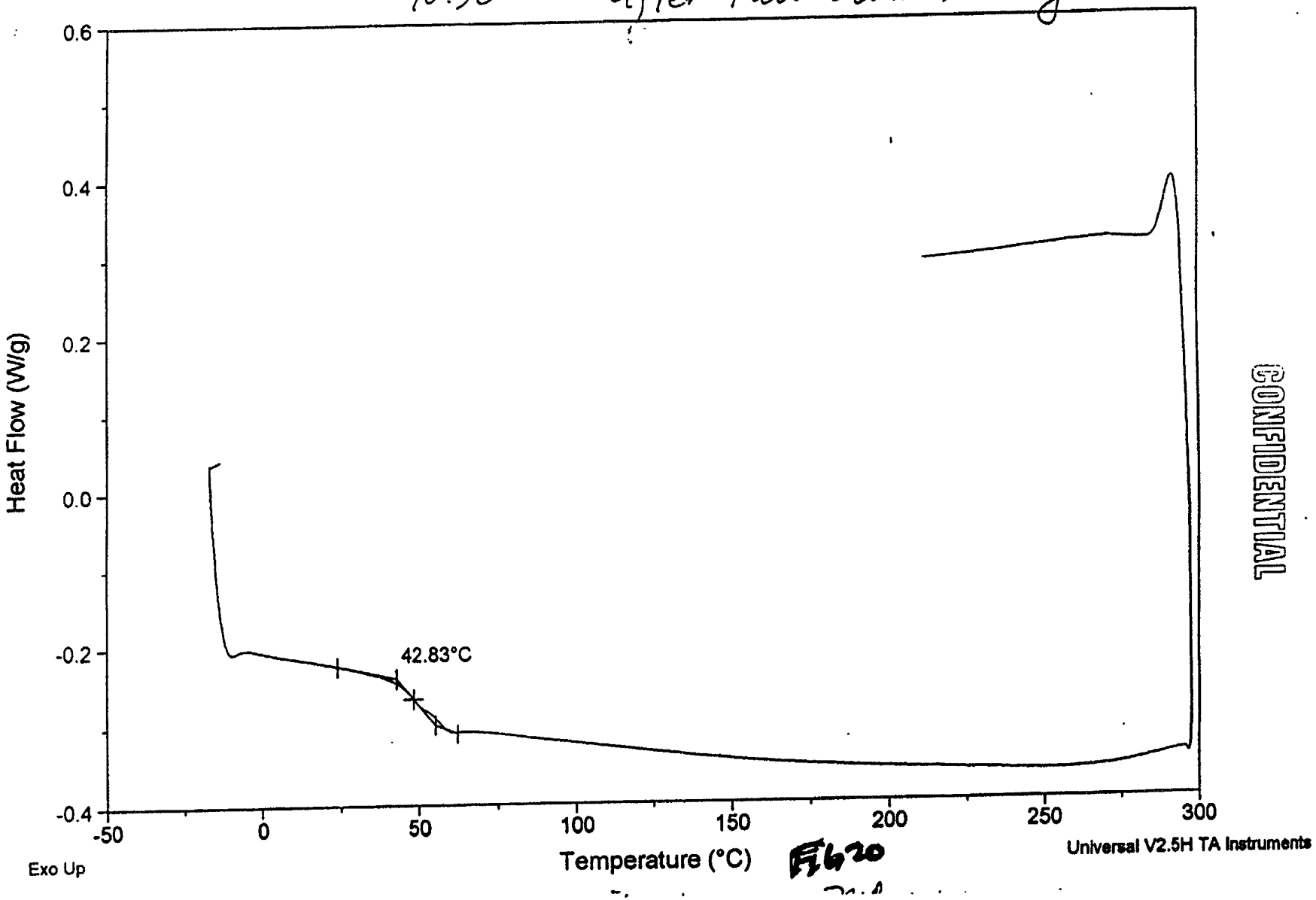
[redacted]



Sample: 1191-19C-7
Size: 9.8400 mg
Method: Polymer Samples
Comment: Material characterization

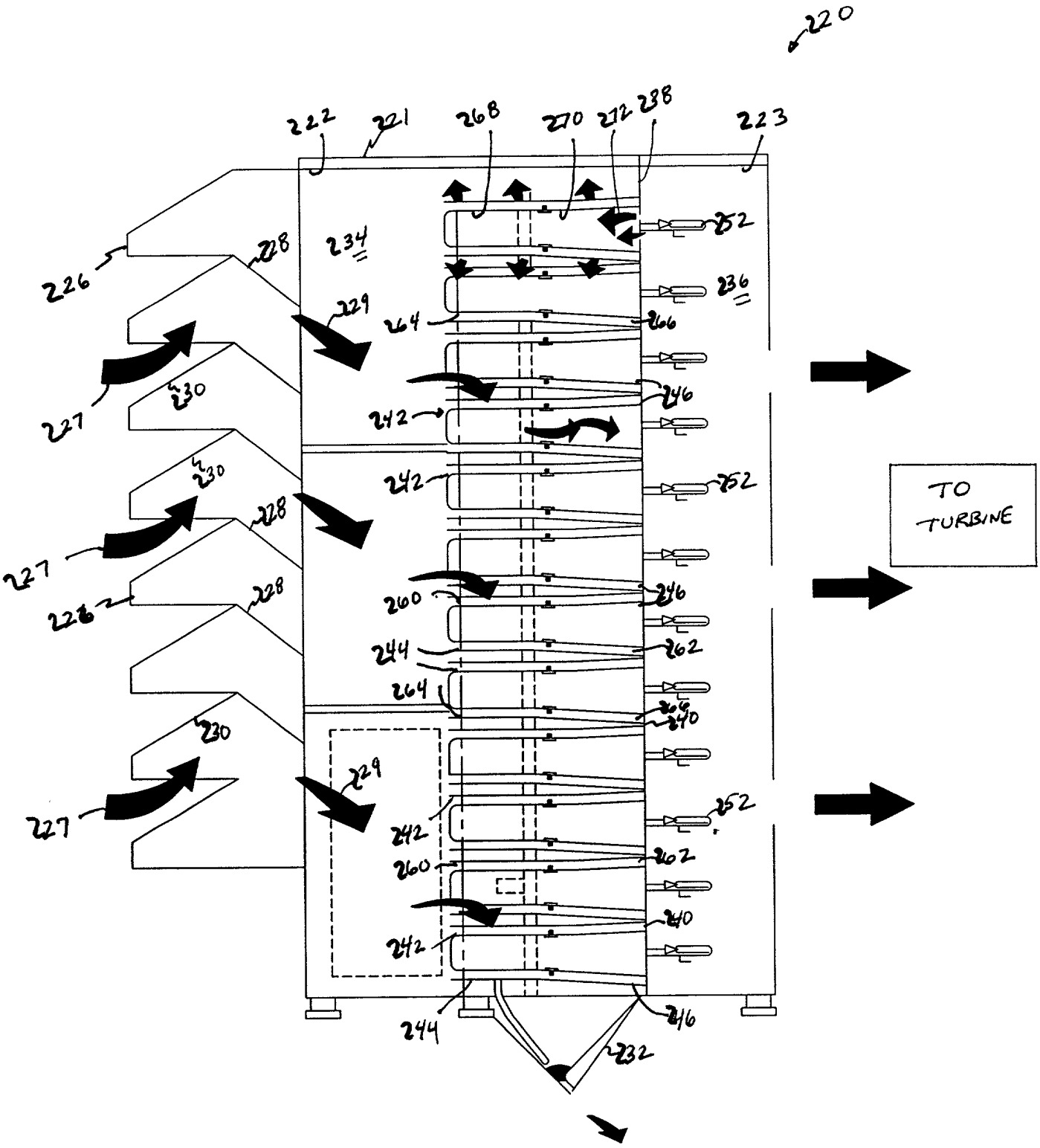
Example 6 2nd Melt DSC [redacted]

70:30 after Full Cross linking



F620

FIG. 21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242
TO TURBINE
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240
216
232

FIG. 22